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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.		
10/012,210	11/05/2001	Stephen V.R. Hellriegel	ATTORIVET BOCKET NO.	CONFIRMATION NO.	
	11/03/2001		901115.435	5315	
	590 07/19/2002				
SEED INTEL	LECTUAL PROPERT	VIAW CPOUD DUE		_	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE			EXAMINER		
SUITE 6300			DINH, TUAN T		
SEATTLE, WA	98104-7092				
			ART UNIT	DAREN AND CO	
				PAPER NUMBER	
	•	·	2827		
			DATE MAILED: 07/10/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

-			Application No.	And And And				
	Office Action Summary		10/012,210	Applicant(s)				
			Examiner	HELLRIEGEL ET AL.				
		•	Tuan T Dinh	Art Unit				
	The MAILING DAT Period for Reply	E of this communication	appears on the cover sheet w	2827				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed  after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any  Status								
	1) Responsive to con	nmunication(s) filed on <u>0</u>	)5 November 2001					
	2a)☐ This action is FINA		This action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-13</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers								
	9) The specification is of	bjected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) he held in abovenes. See S7 050 4 200							
	is: a) approved b) disapproved by the Everying							
	in approved, corrected drawings are required in reply to this Office action							
-	12) I he oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120								
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	a) LI All b) LI Some * c) LI None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No.							
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
	a) Little translation of the foreign language provisional application is							
, == 75 Mile Medgine it is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121								
- 124	acimient(s)			· · ·				
2) <u>[</u> 3) [	Notice of References Cited (PTO- Notice of Draftsperson's Patent D Information Disclosure Statement	rawing Review (RTO 040)	4) Interview Sur 5) Notice of Info 6) Other:	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				
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#### **DETAILED ACTION**

### Specification

Page 1, line 2, should add a serial number on the blank.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 10-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 10-13, it is unclear. Applicant should clarify the preamble to clarify what the method is intended for.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Furnival (U. S. Patent (U. S. Patent 3,977,074).

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Regarding claims 1-2, Furnival discloses a device as shown in figures 1-6 comprising:

a flexible substrate (10-see abstract, lines 15, 16, and column 2, line 1);

a plurality of contact pads (14-figure 1, column 2, line 8) on a first surface of the substrate; and

a strain relief structure (aperture 16, column 2, line 13, claim 2) positioned between two of the plurality of contact pads (see figure 2).

Regarding claims 3-5, Furnival discloses the device as shown in figure 2 wherein the aperture (16) or the strain relief, which has a thinned region, has a rectangular shape.

Regarding claim 6, Furnival discloses the device as shown in figures 1-6 wherein the strain relief structure is centered on a line between centers of two of the plurality of contact pads (see clearly disclosed in figures 1-2).

Regarding claim 7, Furnival discloses the device as shown in figures 1-6 further comprising a plurality of electrical traces (12, 18, column 2, lines 3-4, 14), each of the plurality of electrical trace being in electrical contact with one of the plurality of contact pads (see figures 1-2).

Regarding claim 8, Furnival discloses the device as shown in figure 2 wherein the strain relief (aperture-16) is positioned such that is interrupts one of the electrical traces.

As to claim 9, Furnival discloses an electrical connector (column 2, lines 64-65) as shown in figures 1-6 comprising:

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a flexible substrate (10);

a plurality of contact pads (4) arranged in a regular configuration on a first surface of the substrate;

a plurality of electrical traces (12; 18) on the flexible substrate such of the plurality of electrical traces being in electrical contact with a respective one of the plurality of contact pads (see figures 1-2); and

a plurality of apertures (16) penetrating through the flexible substrate, the plurality of apertures arranged in a regular configuration and intercalated into the plurality of contact pads.

As best understood to claims 10-13, the method steps are necessitated by the device structure as it is disclosed by Furnival in claims 1-8.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suwa, Distefano et al., Shimamoto et al., and Chamberlin et al. disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD

July 12, 2002

DAVID L. TALBOTT

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800